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Order from OTS or SLA \$4.60

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(Chemistry--Organic, TT, v. 6, no. 7)

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 Tsapryakh Makromolekyl. III. O Polyaminokhinsonakh).
 Feb 61 [6]p. 2 refs. RTS 1705.
 Order from I.C. or S.I.A. ml\$1.80, ph\$1.80 61-15744

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR)
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 Another translation is available from ATS \$7.50 as
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Polyaminoquinones were synthesized by the interaction
 of chloranil with benzidine or hexamethylenediamine.
 Polymerhomologous conversions are possible because
 of the mobile halogen atoms in the quinone residues.
 When reacted with metal salts, polyaminoquinones
 form polymeric complexes, of apparently chelate
 structure. The EPR spectra and the magnetic sus-
 ceptibility of aromatic polyaminoquinones and their
 (Chemistry--Organic, TT, v. 5, no. 8) (over)

- I. Title: Polyaminoquinones
- I. Berlin, A. A.
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17 Mar 60, [9]p. 2 refs.

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Trans. of Vysokomolekulyarnyye Soedineniya (USSR)
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Phenylacetylene and p-diethynylbenzene are capable of
polymerization and copolymerization on heating at 150
to 400°C or at 70°C in the presence of complexes of an
aluminum trialkyl and $TiCl_4$ or $TiCl_3$. On increasing
the polymerization temperature of phenylacetylene from
150 to 300°C, there is an increase in yield, molecular
weight and viscosity of polyphenylvinylene; at the same
time the polymer color changes from yellow to brown
(300°C) and black (400°C). Polymers of phenylacetylene
and p-diethynylbenzene and their copolymers have nar-
row EPR signals, a large concentration of paramagnetic
particles (10^{17} to 10^{18} particles/g) and a high value of
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